

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An image record medium comprising:

an image record layer on which an image is recorded upon application of exposure light; ~~and light~~, a wavelength range of the exposure light being outside a visible wavelength range; and

a functional layer formed on one side of the image record layer, having a function of transmitting the exposure light and ~~having transmitting 10% or less in less of visible light transmittance; light~~,

wherein the functional layer transmits the exposure light from an incidence side of the exposure light to the image record layer on an opposite side to the incidence side at least when the exposure light is applied; and

the functional layer shields visible light when the image recorded on the image record layer is observed.
2. (Original) The image record medium according to claim 1 wherein the functional layer has a function of transmitting exposure light in a predetermined wavelength range.
3. (Canceled)
4. (Original) The image record medium according to claim 1 wherein the image record layer has a display layer whose optical characteristic changes upon application of voltage and a photoconductive layer whose electric characteristic changes upon application of the exposure light representing the image.
5. (Currently Amended) An image record apparatus, comprising:

a light application section for applying exposure ~~light~~ light, a wavelength
range of the exposure light being outside a visible wavelength range, to a plurality of image
record media;

a voltage application section for applying an image write voltage to each of the
plurality of image record media; and

a control section for controlling the light application section and the voltage
application section so that exposure light representing an image is applied to the plurality of
placed image record media and the image write voltage is applied to the image record
medium on which the same visible image as the image is to be recorded,

wherein the plurality of image record media each for recording an image upon
application of exposure light and application of a voltage and each having an image record
layer on which an image is recorded upon application of exposure light and a functional layer
formed on one side of the image record layer, having a function of transmitting the exposure
light and ~~having transmitting 10% or less in~~ less of visible light transmittance ~~light~~ are stacked
on each other for placement to record a visible image on each of the image record media
stacked on each other for placement; and

wherein the functional layer transmits the exposure light from an incidence
side of the exposure light to the image record layer on an opposite side to the incidence side at
least when the exposure light is applied; and

the functional layer shields visible light when the image recorded on the image
record layer is observed.

6. (Currently Amended) The image record apparatus according to claim 5
wherein the control section controls the light application section and the voltage application
section so that exposure light is applied to the plurality of placed image record media and the
image write voltage is applied to the plurality of placed image record media at the same time

to record the same visible image on each of the image record ~~media~~, media by using the transmitted exposure light, which is transmitted through the functional layer.

7. (Original) The image record apparatus according to claim 5 wherein the control section controls the light application section and the voltage application section so that an image write process of applying the exposure light representing an image to the plurality of placed image record media and applying the image write voltage to the image record medium on which the same visible image as the image is to be recorded is repeated while changing to exposure light representing a different image and applying the image write voltage to a different image record medium are being conducted, thereby recording each visible image on each of the image record media.

8. (Original) The image record apparatus according to claim 5 wherein the control section controls the light application section and the voltage application section so as to reset to record a uniform initial image on the image record medium before the visible image is recorded on the image record medium.

9. (Currently Amended) An image record medium comprising:
first and second image record layers on which an image is recorded upon application of exposure ~~light; and~~ light, a wavelength range of the exposure light being outside a visible wavelength range; and

a functional layer formed between the first and second image record layers, having a function of transmitting the exposure light and ~~having~~ transmitting 10% or less ~~in less of visible light transmittance; light;~~

wherein the functional layer transmits the exposure light from the first image record layer to the second record layer at least when the exposure light is applied;

the functional layer shields visible light from the first record layer to the second image record layer when the image recorded on the second image record layer is observed; and

the functional layer shields visible light from the second record layer to the first image record layer when the image recorded on the first image record layer is observed.

10-11. (Canceled)

12. (Original) The image record medium according to claim 9, wherein each of the first and second image record layers has a display layer whose optical characteristic changes upon application of voltage and a photoconductive layer whose electric characteristic changes upon application of the exposure light representing the image.

13. (Original) The image record medium according to claim 12, wherein the display layers of the first and second image record layers differ in threshold voltage for changing the optical characteristic.

14. (Currently Amended) An image record apparatus for recording a visible image on an image record medium, comprising:

an exposure section for applying exposure ~~light~~ light, a wavelength range of the exposure light being outside a visible wavelength range, to an image record medium;

a voltage application section for applying an image write voltage to the image record layer forming a part of the image record medium; and

a write control section,

wherein the image record medium is recorded the image thereon upon application of the exposure light and application of the voltage;

the image record medium comprises first and second image record layers on which the image is recorded upon the application of exposure light and a functional layer

formed between the first and second image record layers, having a function of transmitting the exposure light and transmitting 10% or less in less of visible light transmittance; light; and

the write control section controls the exposure section and the voltage application section so that when a visible image is recorded on the first image record layer on a front surface side close to the exposure section, exposure light representing the image to be recorded on the first image record layer is applied to the image record medium and write voltage and voltage improper to write are applied to the first image record layer and the second image record layer on a rear surface side away from the exposure section, respectively and that when a visible image is recorded on the second image record layer on the rear surface side, exposure light representing the image to be recorded on the second image record layer is applied to the image record medium and write voltage and voltage improper to write are applied to the second image record layer and the first image record layer, respectively;

the functional layer transmits the exposure light from an incidence side of the exposure light to the image record layer on an opposite side to the incidence side at least when the exposure light is applied; and

the functional layer shields visible light when the image recorded on the image record layer is observed.

15. (Original) The image record apparatus according to claim 14 wherein the exposure section changes a light amount of the exposure light when a visible image is recorded on the first image record layer of the placed image record medium and when a visible image is recorded on the second image record layer.

16. (Original) The image record apparatus according to claim 14 wherein the write control section controls the exposure section and the voltage application section so that a visible image is first recorded on the second image record layer of the placed image record medium and a visible image is next recorded on the first image record layer.

17. (Original) The image record apparatus according to claim 14 wherein before a visible image is recorded on the second image record layer of the placed image record medium, the electric voltage section applies reset voltage for resetting to record a uniform initial image at least to the first image record layer of the first and second image record layers.

18. (Original) The image record apparatus according to claim 14, wherein each of the first and second image record layers has a display layer made of a cholesteric liquid crystal whose optical characteristic changes upon application of voltage for recording a visible image; and

the voltage application section records a visible image on the second image record layer while applying voltage to the first image record layer.

19. (Original) The image record apparatus according to claim 14 wherein when applying exposure light representing an image to the second image record layer, the exposure section applies exposure light representing a mirror image of the visible image to be recorded on the second image record layer to the image record medium.